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Mastercool 90935

Mastercool 90935 Alum-Bond Aluminum Repair Kit

Model: 90935

Brand: Mastercool

1. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65).

- Always wear appropriate personal protective equipment, including gloves and eye protection, when handling this product.
- Avoid skin and eye contact. In case of contact, flush immediately with plenty of water and seek medical attention.
- Do not ingest. If swallowed, seek immediate medical attention.
- Use in a well-ventilated area.
- Keep out of reach of children and pets.

2. PRODUCT OVERVIEW

The Mastercool 90935 Alum-Bond Aluminum Repair Kit is a high-performance, two-component aluminum-filled epoxy putty designed for durable repairs on various metal surfaces. It features pure aluminum particles, modified curing agents, and premium additives to ensure maximum strength and longevity.



Image: Mastercool 90935 Alum-Bond Aluminum Repair Kit packaging.

Key Features:

- **Two-Component Aluminum-Filled Epoxy:** High-performance repair compound with pure aluminum particles for maximum strength and durability.
- **Non-Rusting, Non-Magnetic Finish:** Ideal for applications requiring an aluminum-like finish that resists corrosion.
- **Strong Bonding Performance:** Delivers 8600 psi compression strength and 3500 psi tensile strength.
- **Quick-Setting Formula:** Cures to full hardness in approximately 4–5 hours at 75 °F (24 °C).
- **Wide Temperature Resistance:** Performs reliably up to 205 °F (96 °C).
- **Easy 1:1 Mixing Ratio:** Includes separate resin (black cap) and hardener (white cap) for simple, consistent results.

3. WHAT'S IN THE BOX

- MASTERCOOL - Alum Bond AC Repair Epoxy 7 Oz (90935)

4. SETUP AND PREPARATION

1. **Surface Preparation:** Ensure the repair surface is clean, dry, and free of grease, oil, rust, or loose particles. Lightly

abrade smooth surfaces for better adhesion.

2. **Dispensing:** Remove the cap from the two-part syringe. Dispense equal parts of the resin (black cap) and hardener (white cap) onto a clean, disposable mixing surface.
3. **Mixing:** Using a clean mixing stick or spatula, thoroughly mix the two components until a uniform color is achieved. This typically takes about 1-2 minutes.

Visual Guide: Mixing Epoxy

Your browser does not support the video tag.

Video: Demonstrates mixing of a two-component casting adhesive. Note: This video is for illustrative purposes of mixing technique.

Your browser does not support the video tag.

Video: Shows the mixing process of a metal welding glue. Note: This video is for illustrative purposes of mixing technique.

5. OPERATING INSTRUCTIONS

1. **Application:** Immediately after mixing, apply the epoxy putty firmly and evenly to the prepared repair area. Ensure complete coverage of cracks, holes, or bonding surfaces.
 2. **Smoothing:** Use a clean tool or gloved finger to smooth the applied epoxy and remove any excess material before it begins to set.
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6. CURING TIME

- **Set Time:** The epoxy begins to set within minutes of mixing.
 - **Functional Cure:** Achieves functional hardness in approximately 4-5 hours at 75 °F (24 °C). Lower temperatures will extend curing time.
 - **Full Cure:** Reaches maximum strength and full cure after 24 hours.
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7. POST-CURE HANDLING

Once fully cured, the Alum-Bond epoxy can be:

- **Drilled:** For creating new holes or enlarging existing ones.
 - **Machined:** To achieve a desired shape or finish.
 - **Sanded:** To smooth the surface for aesthetic purposes or further treatment.
 - **Painted:** To match the surrounding surface or for added protection.
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8. MAINTENANCE

- Store unused epoxy components in their original, tightly sealed containers in a cool, dry place.
 - Clean mixing tools and surfaces immediately after use with appropriate solvents before the epoxy cures.
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9. TROUBLESHOOTING

- **Product does not cure:** Ensure that the resin and hardener components are mixed in an exact 1:1 ratio by weight or volume. Inadequate mixing or incorrect ratios can prevent proper curing. Also, verify that the ambient temperature is within the recommended range (above 75 °F / 24 °C) for optimal curing.

10. SPECIFICATIONS

Attribute	Value
Model	90935
Item Weight	7.2 ounces
Product Dimensions	6 x 3 x 2 inches
Temperature Resistance	Up to 205 °F (96 °C)
Compression Strength	8600 psi
Tensile Strength	3500 psi

11. WARRANTY AND SUPPORT

Mastercool products are backed by a commitment to professional-grade quality and responsive customer service. For specific warranty details or technical support, please refer to the product packaging or contact Mastercool directly. Mastercool is known for driving new product innovation and technology to make everyday work easier, with products made/assembled in the USA and tested at their headquarters in Randolph, New Jersey.